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<p>Substitute for form 1449/PTO</p> <h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="margin: 0;">(Use as many sheets as necessary)</p>	<p>Complete if Known</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Application Number</td><td>10/821,328</td></tr> <tr><td>Filing Date</td><td>June 17, 2002</td></tr> <tr><td>First Named Inventor</td><td>Norberto A. Guzman</td></tr> <tr><td>Art Unit</td><td>1753</td></tr> <tr><td>Examiner Name</td><td>Alex Nogueroles</td></tr> <tr><td>Attorney Docket Number</td><td>57430.00006</td></tr> </table>	Application Number	10/821,328	Filing Date	June 17, 2002	First Named Inventor	Norberto A. Guzman	Art Unit	1753	Examiner Name	Alex Nogueroles	Attorney Docket Number	57430.00006
Application Number	10/821,328												
Filing Date	June 17, 2002												
First Named Inventor	Norberto A. Guzman												
Art Unit	1753												
Examiner Name	Alex Nogueroles												
Attorney Docket Number	57430.00006												
<p>Sheet <u>1</u> of <u>14</u></p>													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CA		US- 5,045,172		Guzman	
CA		US- 5,202,010		Guzman	
CA		US- 5,246,577		Fuchs et al.	
CA		US- 5,318,680		Fishman et al.	
CA		US- 5,340,452		Brenner et al.	
CA		US- 5,548,633 5,348,633		Karger et al.	
CA		US- 5,413,686		Klein et al.	
CA		US- 5,439,578		Dovichi et al.	
CA		US- 5,453,382		Novotny et al.	
CA		US- 5,498,324		Yeung et al.	
CA		US- 5,516,409		Kambara	
CA		US- 5,560,811		Briggs et al.	
CA		US- 5,730,850		Kambara et al.	
CA		US- 5,741,639		Ensing et al.	
CA		US- 5,800,692		Naylor et al.	
CA		US- 5,958,202		Regnier et al.	
CA		US- 6,007,690		Nelson et al.	
CA		US- 6,010,607		Ramsey	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
CA		WO 95/10344	4/1995			
CA		WO 97/11362	3/1997			
CA		WO 00/30751	6/2000			
CA		WO 00/65354	11/2000			
CA		WO 02/44703 A2	6/2002			
CA		WO 02/48716 A2	6/2002			

Examiner Signature: <i>Alex Nogueroles</i>	Date Considered: 11/02/05
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an		US- 6,224,728		Oborny et al.	
an		US- 6,387,234		Yeung et al.	
an		US- 6,395,169		Hindsgaul et al.	
an		US- 6,406,604		Guzman	
an		US- 6,415,821		Kambolz et al.	
an		US- 6,534,262		McKernan et al.	
an		US- 6,544,396		Cong et al.	
an		US- 6,554,986		Mathies et al.	
an		US- 6,562,214		Amrhein et al.	
an		US- 6,596,140		Nordman et al.	
an		US- 6,613,212		Siebert et al.	
an		US- 6,616,824		Tanaka	
an		US- 6,627,453		Hindsgaul et al.	
an		US- 6,635,164		Anazawa et al.	
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an		WO 02/059592 A2	8/2002			
an		WO 03/27028 A1	4/2003			
an		WO 03/038424 A1	5/2003			
an		WO 03/48755 A1	6/2003			
an		WO 03/059935 A2	7/2003			
an		WO 03/087772 A2	10/2003			

Examiner Signature <i>Alex Nogueraola</i>	Date Considered	11/02/05
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		Examiner Name	A.S Nogueroles
Sheet 4	of 14	Attorney Docket Number	57430.00006

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
an		"Affinity Chromatography," Cuatrecasas and Anfinsen, Annual Review of Biochemistry 40, pp. 259-278. No month available (1971).	
an		"Isotachopheresis Electrodesorption of Proteins from an Affinity Adsorbent on a Microscale," Kasicka and Prusik, Journal of Chromatography 273(1), pp. 117-128 (March 11, 1983).	
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an		"The Use of a Concentration Step to Collect Urinary Components Separated by Capillary Electrophoresis and Further Characterization of Collected Analytes by Mass Spectrometry," Guzman et al., Journal of Liquid Chromatography 14(5), pp. 997-1015 (March 1991).	
an		"Enzymophoresis of Nucleic Acids by Tandem Capillary Enzyme Reactor-Capillary Zone Electrophoresis," Nashabeh and Ziad El Rassi, Journal of Chromatography 596(2), pp. 251-264 (April 10, 1992).	
an		"Switching Valve with Internal Micro Precolumn for On-Line Sample Enrichment in Capillary Zone Electrophoresis," Debets et al., Journal of Chromatography 608(1-2), pp. 151-158 (September 11, 1992).	
an		"On-Line Peptide Mapping by Capillary Electrophoresis," Amankwa and Kuhr, Analytical Chemistry 65(19), pp. 2693-2697 (October 1, 1993).	
an		"Preparation and Evaluation of an On-Line Preconcentrator for Capillary Electrophoresis," Hoyt, Jr. et al., Journal of Microcolumn Separations 5(4), pp. 325-330, No month available (1993).	
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an		"Immunoaffinity Capillary Electrophoresis Analysis of Cyclosporin in Tears," Phillips and Chmielinska, Biomedical Chromatography 8(5), pp. 242-246 (September-October 1994).	

Examiner Signature	<i>A.S. Nogueroles</i>	Date Considered	11/02/05
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an		"Optimization of On-Line Peptide Mapping by Capillary Zone Electrophoresis," Licklider and Kuhr, Analytical Chemistry 66(24), pp. 4400-4407 (December 15, 1994).	
an		"The Use of Solid Phase Concentrators for On-Line Preconcentration of Metallothionein Prior to Isoform Separation by Capillary Zone Electrophoresis," Beattie et al., Electrophoresis 16(3), pp. 322-328 (March 1995).	
an		"Selective Preconcentration for Capillary Zone Electrophoresis Using Protein G Immunoaffinity Capillary Chromatography," Cole and Kennedy, Electrophoresis 16(4), pp. 549-556 (April 1995).	
an		"Sensitivity Enhancement and Second-Dimensional Information from Solid Phase Extraction-Capillary Electrophoresis of Entire High-Performance Liquid Chromatography Fractions," Strausbauch et al., Electrophoresis 16(4), pp. 541-548 (April 1995).	
an		"Michaelis-Menten analysis of immobilized enzyme by affinity capillary electrophoresis," Yoshimoto et al., Journal of Pharmaceutical and Biomedical Analysis 13(4-5), pp. 483-488 (April 1995).	
an		"Biomedical Applications of On-Line Preconcentration-Capillary Electrophoresis Using an Analyte Concentrator: Investigation of Design Options," Guzman, Journal of Liquid Chromatography 18(18&19), pp. 3751-3768 (June 1995).	
an		"Capillary enzymophoresis of nucleic acid fragments using coupled capillary electrophoresis and capillary enzyme microreactors having surface-immobilized RNA-modifying enzymes," Mechref and El Rassi, Electrophoresis 16(11), pp. 2164-2171 (November 1995).	
an		"Immobilization of Antibodies as a Versatile Tool in Hybridized Capillary Electrophoresis," Ensing and Paulus, Journal of Pharmaceutical and Biomedical Analysis 14(3), pp. 305-316 (January 1996).	
an		"On-Capillary Sample Preconcentration Incorporated in Chiral Capillary Electrophoresis," He et al., Analytical Sciences 12, pp. 177-181 (April 1996).	
an		"Preconcentration and Microreaction Technology On-Line with Capillary Electrophoresis," Tomlinson et al., Journal of Chromatography A 744(1-2), pp. 3-15 (13 September, 1996).	

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an		"Protein Identification by Solid Phase Microextraction-Capillary Zone Electrophoresis-Microelectrospray-Tandem Mass Spectrometry," Figeys et al., Nature Biotechnology 14(11), pp. 1579-1583 (November 1996).	
an		"Consecutive protein digestion and peptide derivatization employing an on-line analyte concentrator to map proteins using capillary electrophoresis," Guzman, In: Capillary Electrophoresis in Analytical Biotechnology (Edited by Pier Giorgio Righetti), CRC Series in Analytical Biotechnology, Chapter 4, pp. 101-121, CRC Press, Inc. Boca Raton, Florida (1996, No month available).	
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an		"High-Throughput DNA Sequencing on a Capillary Array Electrophoresis System," Marsh et al., Journal of Capillary Electrophoresis 4(2), pp. 83-89 (March-April 1997).	
an		"New Approaches in Clinical Chemistry: On-Line Analyte Concentration and Microreaction Capillary Electrophoresis for the Determination of Drugs, Metabolic Intermediates, and Biopolymers in Biological Fluids," Guzman et al., Journal of Chromatography B 697(1-2), pp. 37-66 (September 12, 1997).	
an		"Automated Microanalysis Using Magnetic Beads with Commercial Capillary Electrophoresis Instrumentation," Rashkovetsky et al., Journal of Chromatography A, 781(1-2), pp. 197-204 (26 September, 1997).	
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an		"A New Design for Large, Dilute Sample Loading in Capillary Electrophoresis," Barroso and de Jong, Journal of Capillary Electrophoresis 5(1-2), pp. 1-7 (January-February-March-April, 1998).	
an		"Affinity Capillary Electrophoresis: A Physical-Organic Tool for Studying Interactions in Biomolecular Recognition," Colton et al., Electrophoresis 19(3), pp. 367-382 (March 1998).	

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an		"Survey of Recent Advances in Analytical Applications of Immunoaffinity Chromatography," Hage, Journal of Chromatography B 715(1), pp. 3-28 (September 11, 1998).	
an		"Affinity Capillary Electrophoresis: Important Application Areas and Some Recent Developments," Heegaard et al., Journal of Chromatography B 715(1), pp. 29-54 (September 11, 1998).	
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an		"Nanoflow Solvent Gradient Delivery from a Microfabricated Device for Protein Identifications by Electrospray Ionization Mass Spectrometry," Figeys and Aebersold, Analytical Chemistry 70(18), pp. 3721-3727 (September 15, 1998).	
an		"Fabrication of Nanocolumns for Liquid Chromatography," He et al., Analytical Chemistry 70(18), pp. 3790-3797 (September 15, 1998).	
an		"Parallel Molecular Genetic Analysis," McKenzie et al., European Journal of Human Genetic 6(5), pp. 417-429 (September-October, 1998).	
an		"Optimization of Solid Phase Microextraction-Capillary Zone Electrophoresis-Mass Spectrometry for High Sensitivity Protein Identification," Figeys et al., Electrophoresis 19(13), pp. 2338-2347 (October, 1998).	
an		"Analysis of Recombinant Cytokines in Human Body Fluids by Immunoaffinity Capillary Electrophoresis," Phillips and Dickens, Electrophoresis 19(16-17), pp. 2991-2996 (November, 1998).	
an		"Evaluation of Adsorption Preconcentration/Capillary Zone Electrophoresis/Nanospray Mass Spectrometry for Peptide and Glycoprotein Analyses," Bateman et al., Journal of Mass Spectrometry 33(11), pp. 1109-1123 (November, 1998).	
an		"Precolumn Affinity Capillary Electrophoresis for the Identification of Clinically Relevant Proteins in Human Serum: Application to human Cardiac Troponin I," Dalluge and Sander, Analytical Chemistry 70(24), pp. 5339-5343 (December 15, 1998).	

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Sheet 8	of 14	Attorney Docket Number	57430.00006

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an		"On-Line Bioaffinity, Molecular Recognition, and Preconcentration in CE Technology," Guzman, LC-GC 17(1), pp. 16-27 (January 1999).	
an		"Capillary Array Electrophoresis DNA Sequencing," Kheterpal and Mathies, Analytical Chemistry 71(1), pp. 31A-37A (January 1, 1999).	
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an		"SDS Capillary Electrophoresis of Proteins in Microfabricated Channels," Yao et al., Proceedings of the National Academy of Sciences USA 96(10), pp. 5372-5377 (May 11, 1999).	
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an		"Monitoring the purity of a synthetic peptide by capillary electrophoresis: Utilization of an on-line preconcentration method for improved separation and detection sensitivity," Vizioli et al., Journal of Capillary Electrophoresis 6(3-4), pp. 109-118 (May-August 1999).	
an		"Simultaneous Genetic Typing from Multiple Short Tandem Repeat Loci Using a 96-Capillary Array Electrophoresis System," Gao et al., Electrophoresis 20(7), pp. 1518-1526 (June 1999).	
an		"Dynamic Hybridization on a Chip Using Paramagnetic Beads," Fan et al., Analytical Chemistry 71(21), pp. 4851-4859 (November 1, 1999).	

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		Application Number	10/821.328
		Filing Date	June 17, 2002
		First Named Inventor	Norberto A. Guzman
		Art Unit	1753
		Examiner Name	A.S Nogueroles
Sheet 9	of 14	Attorney Docket Number	57430.00006

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an		"Radial Capillary Array Electrophoresis Microplate and Scanner for High-Performance Nucleic Acid Analysis," Shi et al., Analytical Chemistry 71(23), pp. 5354-5361 (December 1, 1999).	
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an		"Electrochromatography," Smith and Carter-Finch, Journal of Chromatography A 892(1-2), pp. 219-255 (15 September 2000).	

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an		"Immuno-based sample preparation for trace analysis," Hennon and Pichon, Journal of Chromatography A 1000(1-2), pp. 29-52 (June 6, 2003).	

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